
Product Data Sheet

Product Name: J-2156
Cat. No.: GC36358

Chemical Properties

Cas. No. 848647-56-3

SMILES O=C(N)[C@@H](NC([C@H](CCN)NS(C1=CC=C(C)C2=CC=CC=C21)(=O)=O)=O)CC3=CC=CC=C3

Formula $C_{24}H_{28}N_4O_4S$ M.Wt 468.57

Solubility DMSO : 250 mg/mL (533.54 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

J-2156 is a high potent, selective somatostatin receptor type 4 (SST4 receptor) agonist with IC50s of 0.05 nM and 0.07 nM for human and rat SST4 receptors, respectively. The ED50 of J-2156 in rats for the relief of mechanical allodynia and mechanical hyperalgesia in the ipsilateral hindpaws was 3.7 and 8.0 mg/kg, respectively[1]. IC50: 0.05 nM (human SST4) and 0.07 nM (rat SST4)[1]

J-2156 (1-10mg/kg; i.p.; for 3 hours) of single bolus doses has anti-allodynic effect on ipsilateral and contralateral in BCIBP-rats[1]. Animal Model: BCIBP-rats[1]

[1]. Shenoy PA, et al. The Somatostatin Receptor-4 Agonist J-2156 Alleviates Mechanical Hypersensitivity in a Rat Model of Breast Cancer Induced Bone Pain. Front Pharmacol. 2018 May 15;9:495.

Caution: Product has not been fully validated for medical applications. For research use only.

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